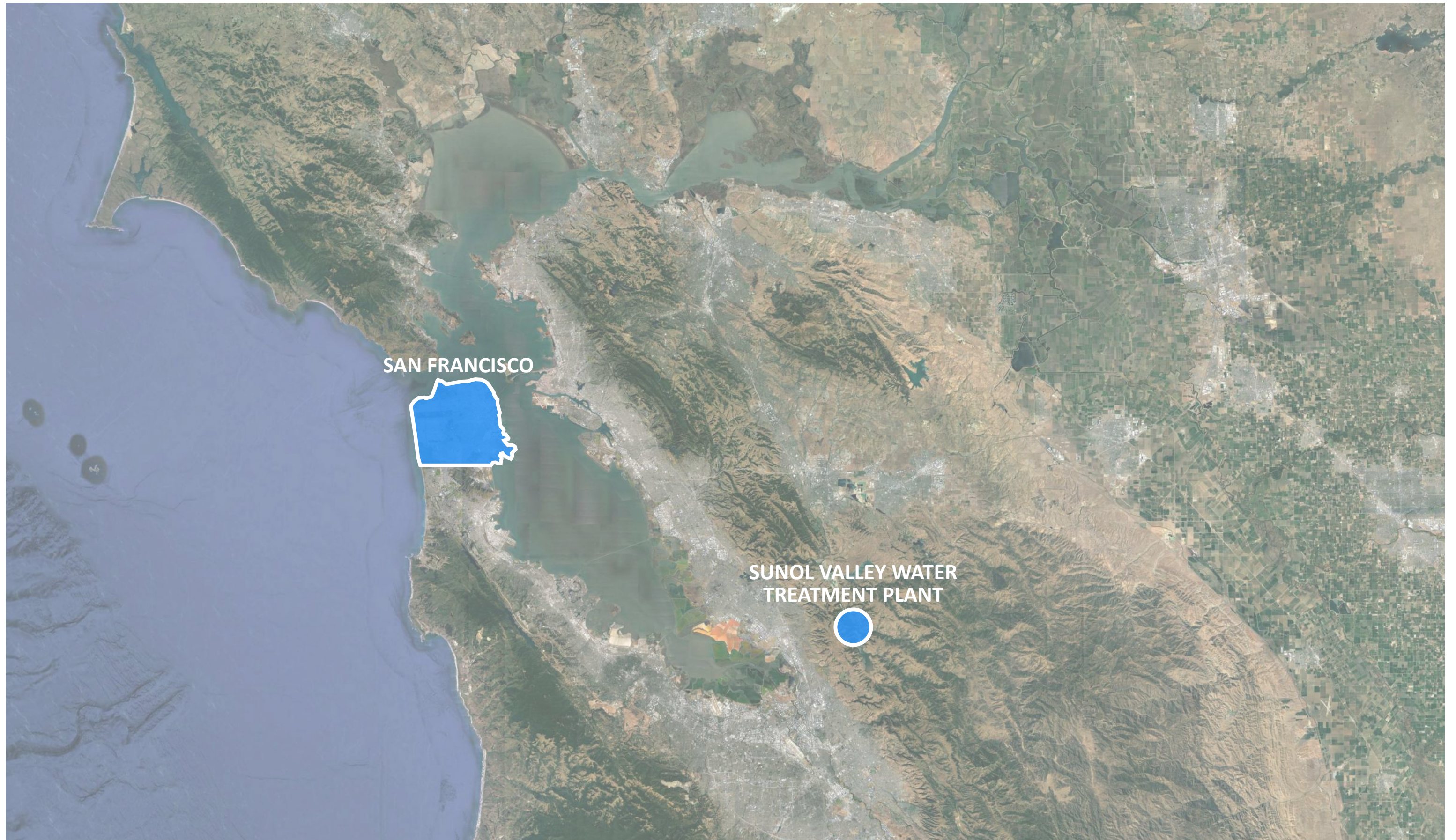




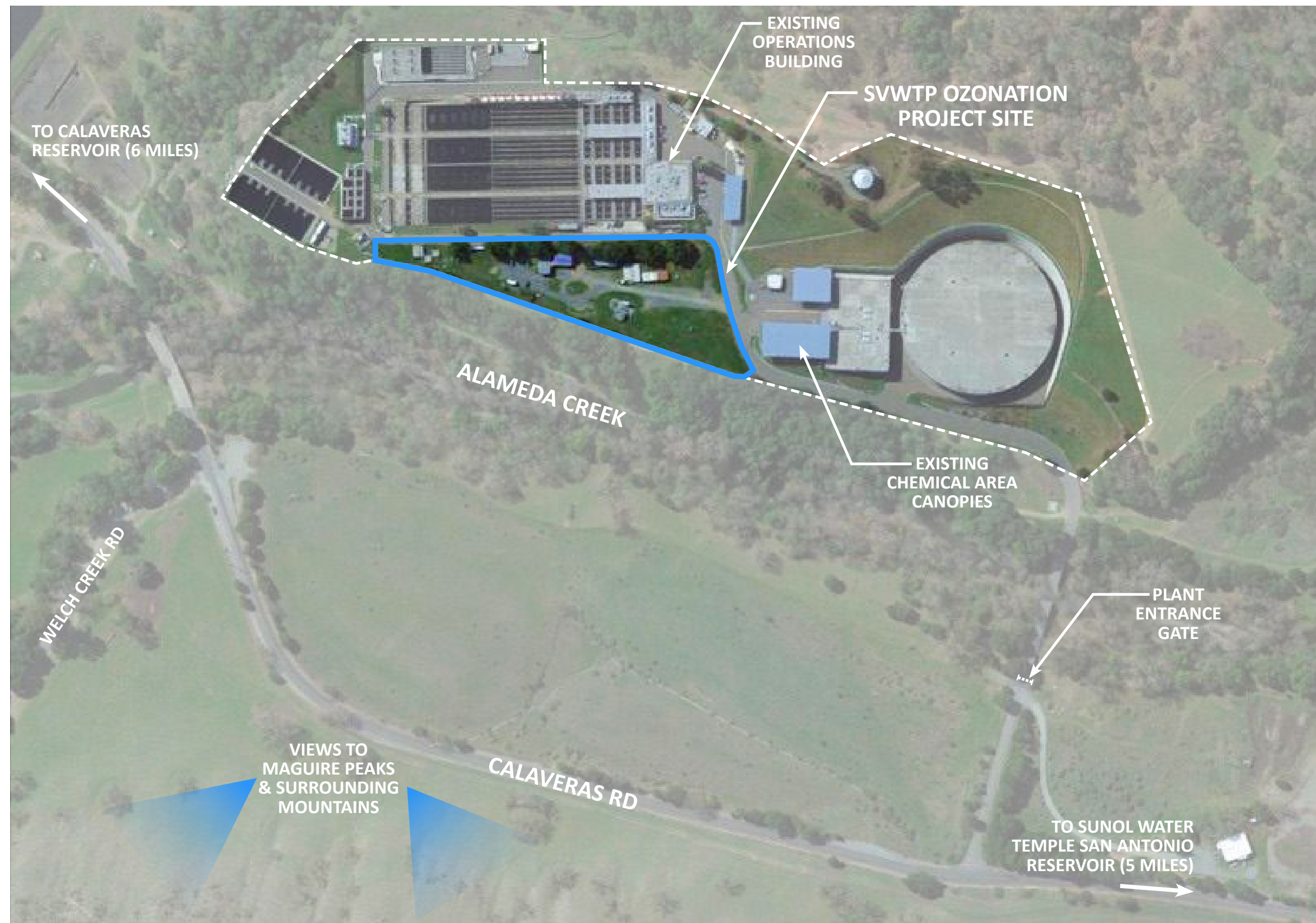
SAN FRANCISCO PUBLIC UTILITIES COMMISSION
SUNOL VALLEY WATER TREATMENT PLANT - OZONATION PROJECT
CIVIC DESIGN REVIEW | PHASE II | 10.17.2022

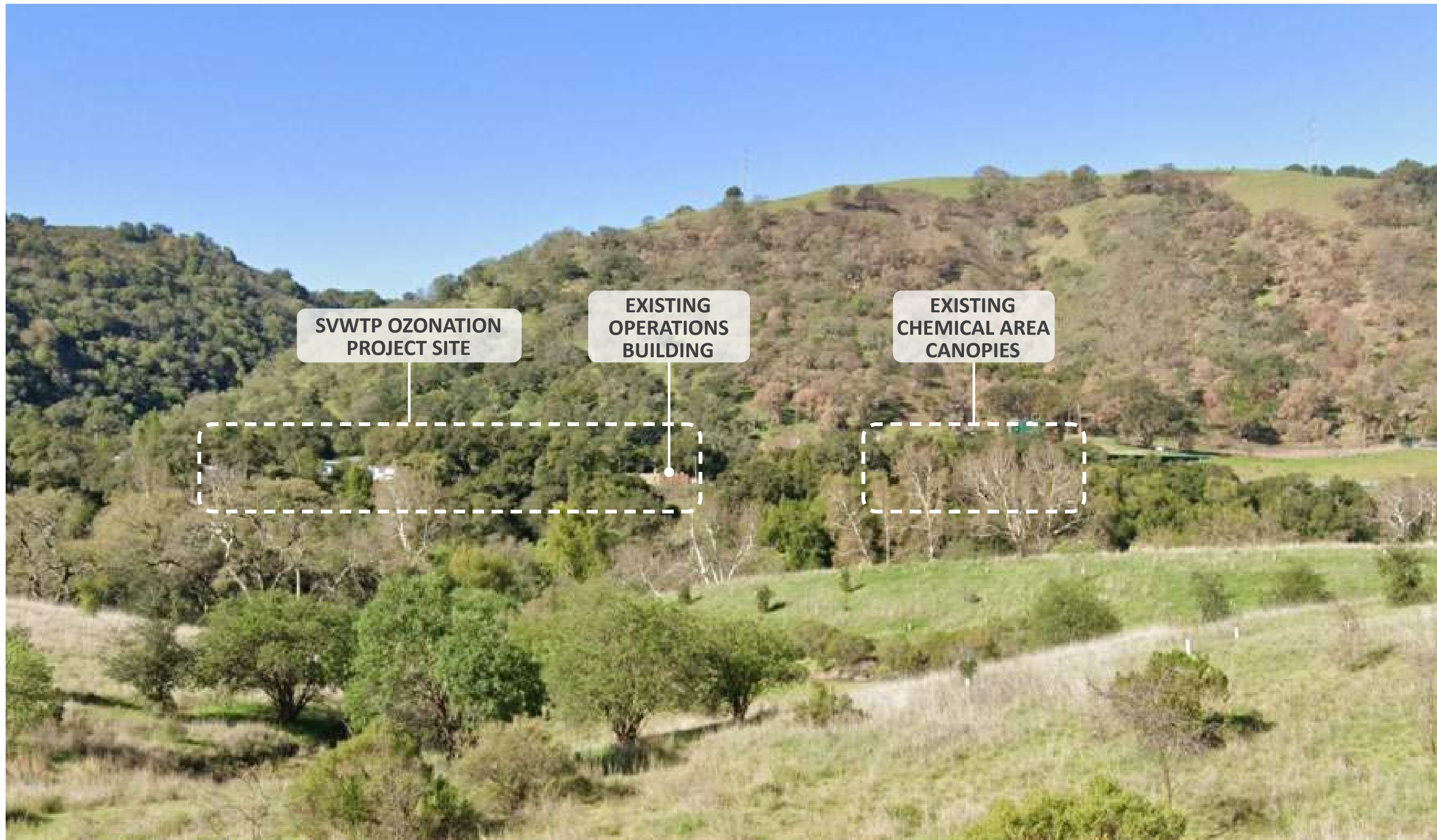


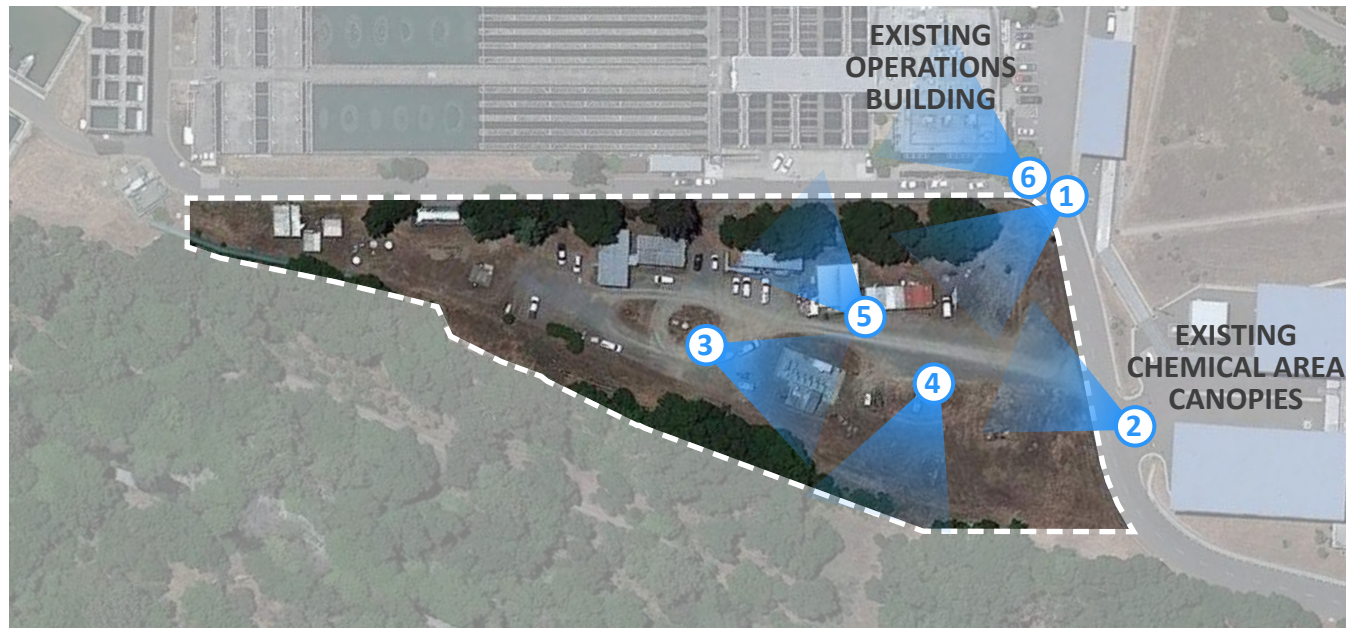
PROJECT & SITE OVERVIEW

- Existing water treatment plant located in Sunol, CA
- This project will add an ozone system to remove tastes & odors from water
- Ozone system will include several new facilities









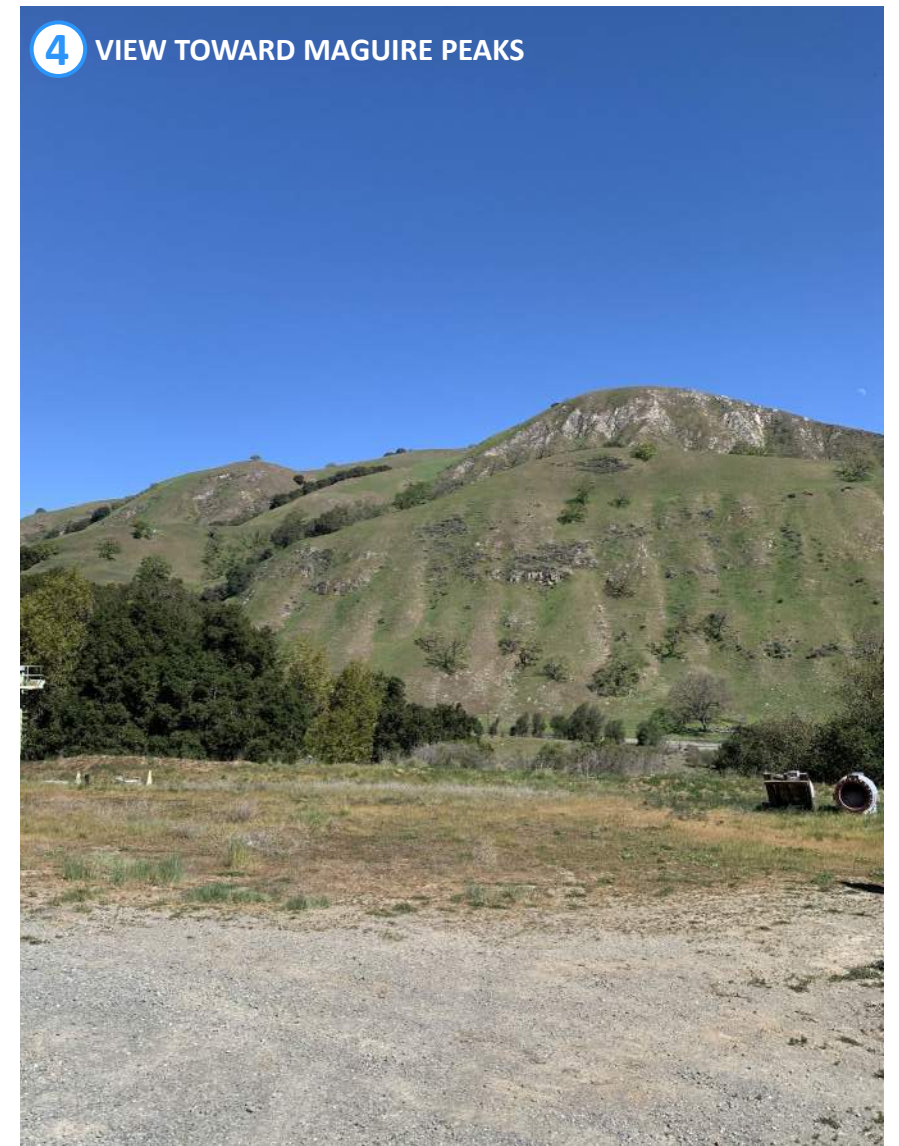
1 VIEW FROM ACCESS ROAD INTERSECTION



2 VIEW FROM PROPOSED VEHICULAR ENTRY/EXIT



3 VIEW TOWARD [E] PH & ALKALINITY ADJUSTMENT FACILITY



4 VIEW TOWARD MAGUIRE PEAKS



5 [E] OVERFLOW CONTAINMENT BASIN



6 VIEW TOWARD [E] OPERATIONS BUILDING

ARCHITECTURAL COMMENTS FROM PHASE 1

1. Can the number of axial orientations, of the new facilities, be reduced?

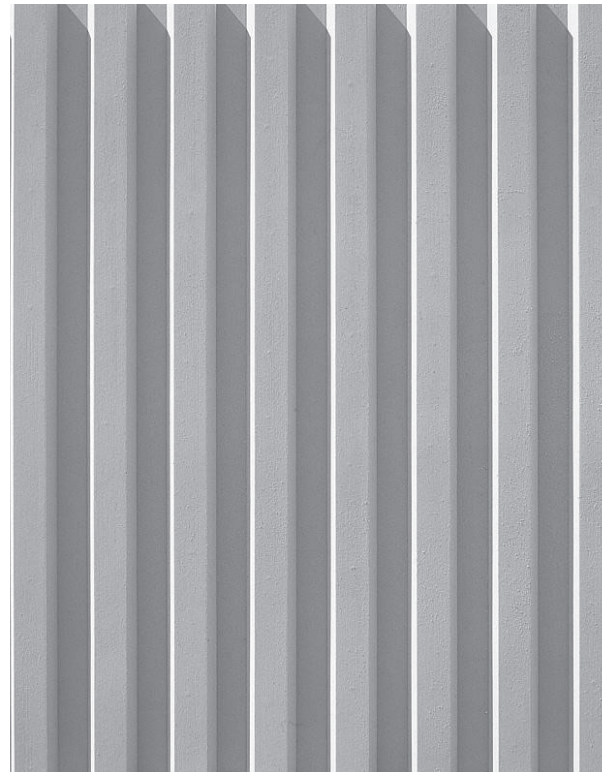
Response: *Existing non-axial facilities are concrete pads & infrastructure piping, so axial relationship is not as important as if they were buildings with entrances. Existing facilities and underground infrastructure do not allow for realignment.*

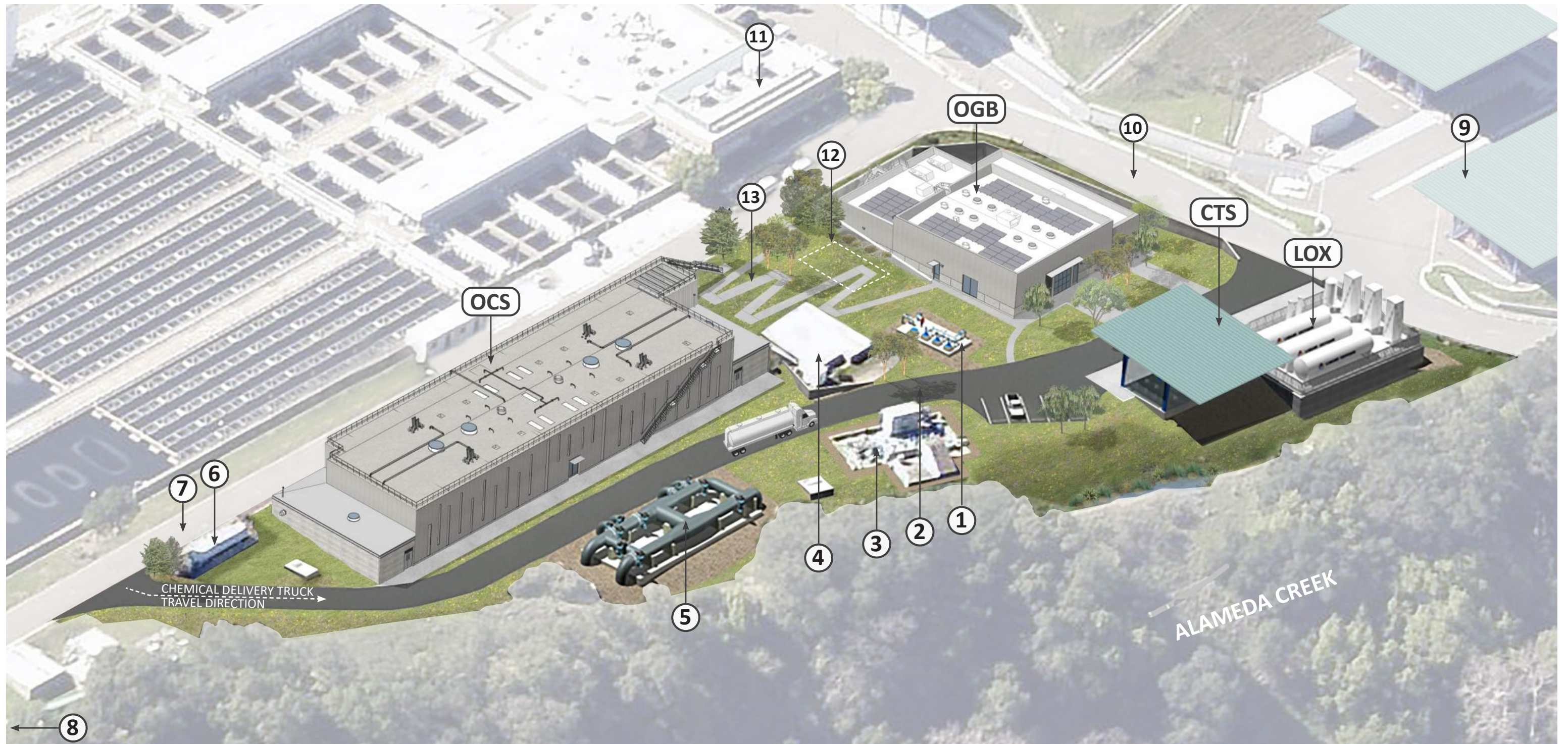
2. Can Ozone Generation Building massing be simplified? Can parapet heights align?

Response: *Team explored massing/parapet options, but determined that the existing massing and parapet heights work best for the program requirements and site function + experience.*

3. Analyze the Ozone Contactor Structure massing + compositional design, as it relates to the programmatic elements.

Response: *East Elevation composition and materiality now responds to building's contactor basins and ozone destruct area program spaces. The expressed contactor basin baffle walls were simplified for clarity of function and composition.*





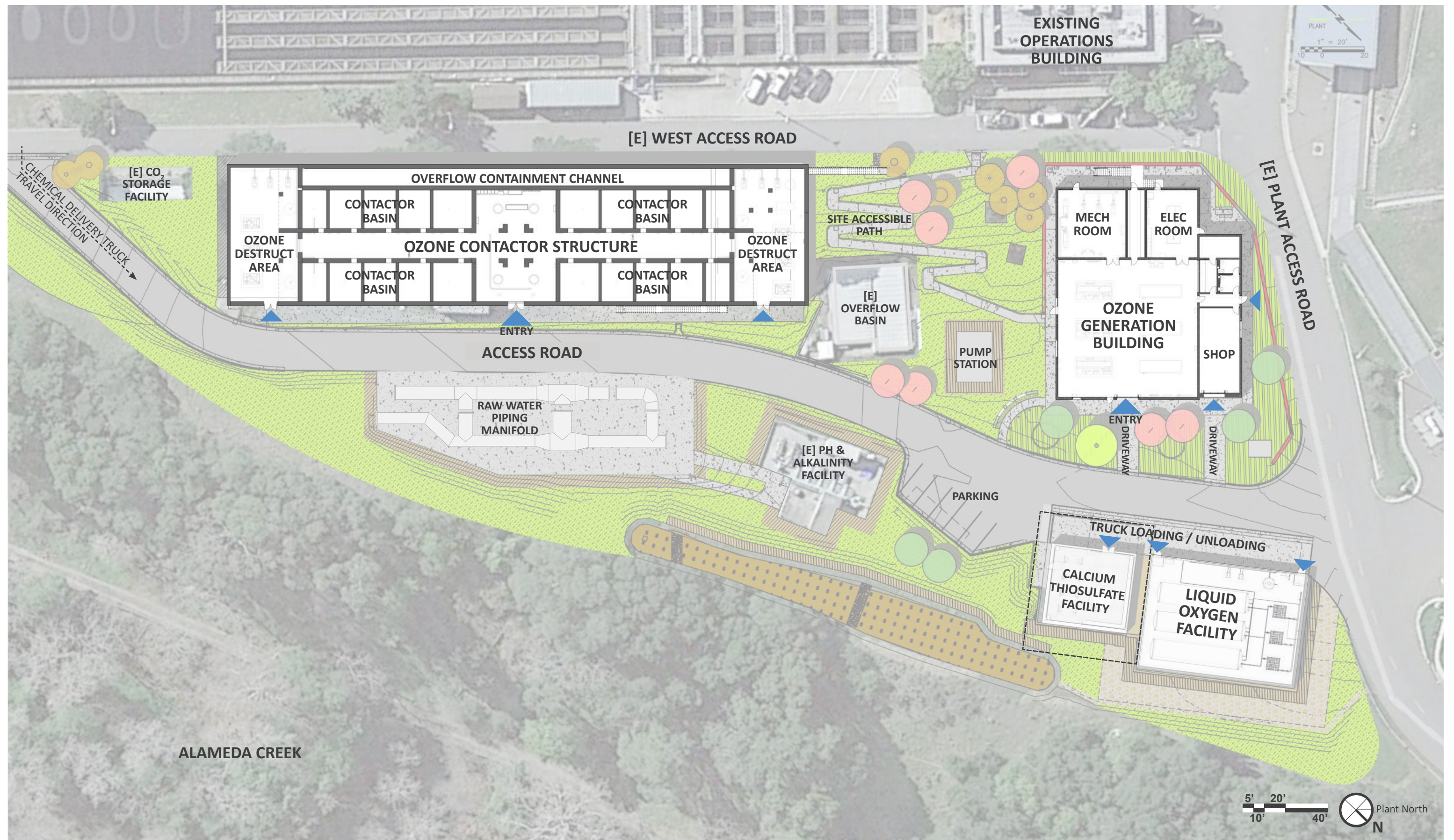
- [OGB]** OZONE GENERATION BUILDING
- [OCS]** OZONE CONTACTOR STRUCTURE
- [CTS]** CALCIUM THIOSULFATE FACILITY
- [LOX]** LIQUID OXYGEN FACILITY

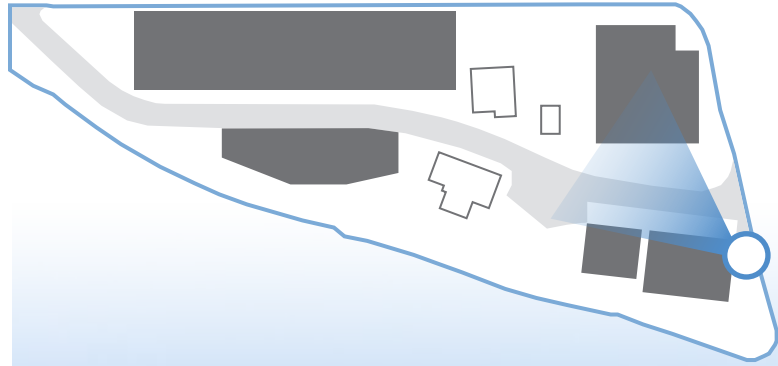
- ①** OPEN LOOP COILING WATER PUMP STATION
- ②** ACCESS ROAD
- ③** [E] PH & ALKALINITY ADJUSTMENT FACILITY

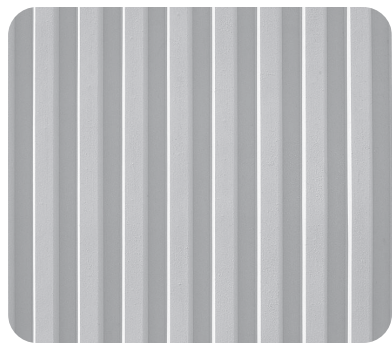
- ④** [E] OVERFLOW CONTAINMENT BASIN
- ⑤** RAW WATER PIPING MANIFOLD
- ⑥** [E] CARBON DIOXIDE STORAGE FACILITY

- ⑦** [E] WEST ACCESS ROAD
- ⑧** REPLACE [E] WASHWATER RECOVERY PUMPS & SLUDGE LAGOON DECANT PUMPS
- ⑨** NEW METERING PUMPS @ [E] CHEMICAL STORAGE AREAS

- ⑩** [E] PLANT ACCESS ROAD
- ⑪** [E] OPERATIONS BUILDING
- ⑫** [E] OVERFLOW BOX (UNDERGROUND)
- ⑬** SITE ACCESSIBILITY PATH



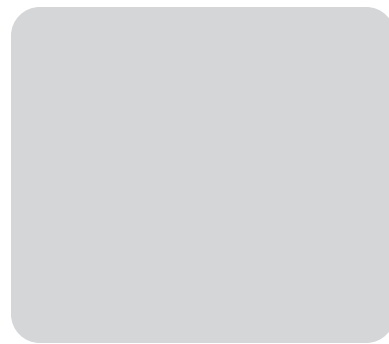




RIBBED CONCRETE TEXTURE



SMOOTH FORMED CONCRETE



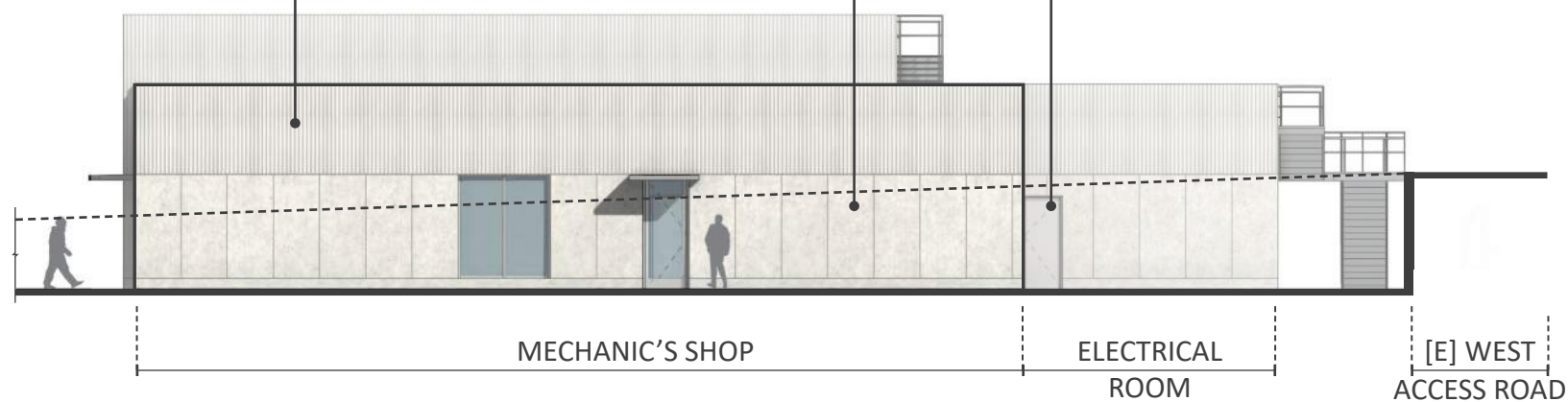
FLUSH PANEL METAL DOORS
TO MATCH ANODIZED ALUM.



STOREFRONT GLAZING
W/ ANODIZED ALUM. FRAME



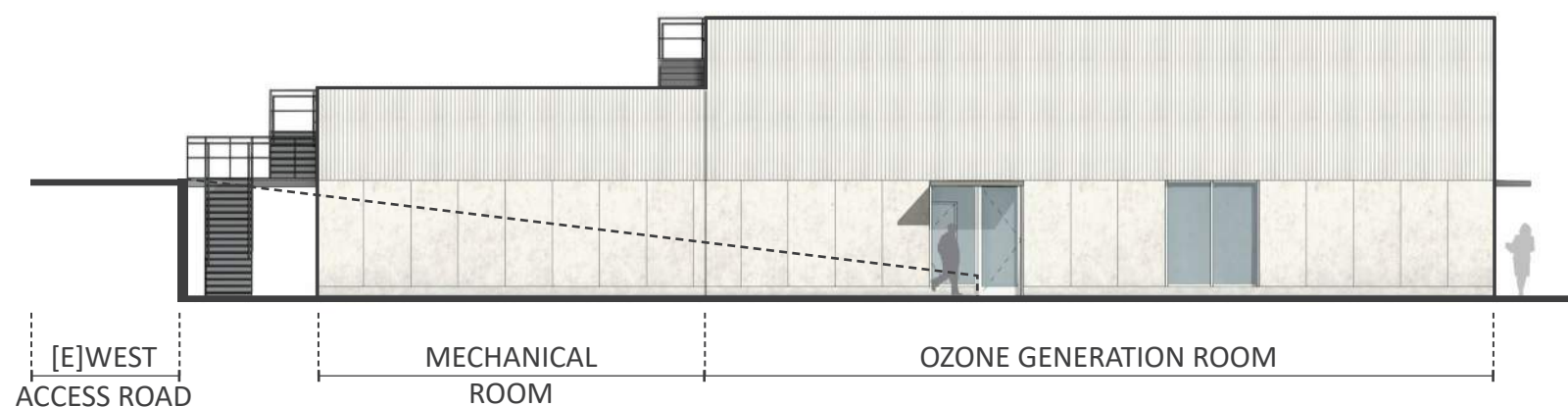
BI-FOLD DOORS
W/ ANODIZED ALUM. FRAME



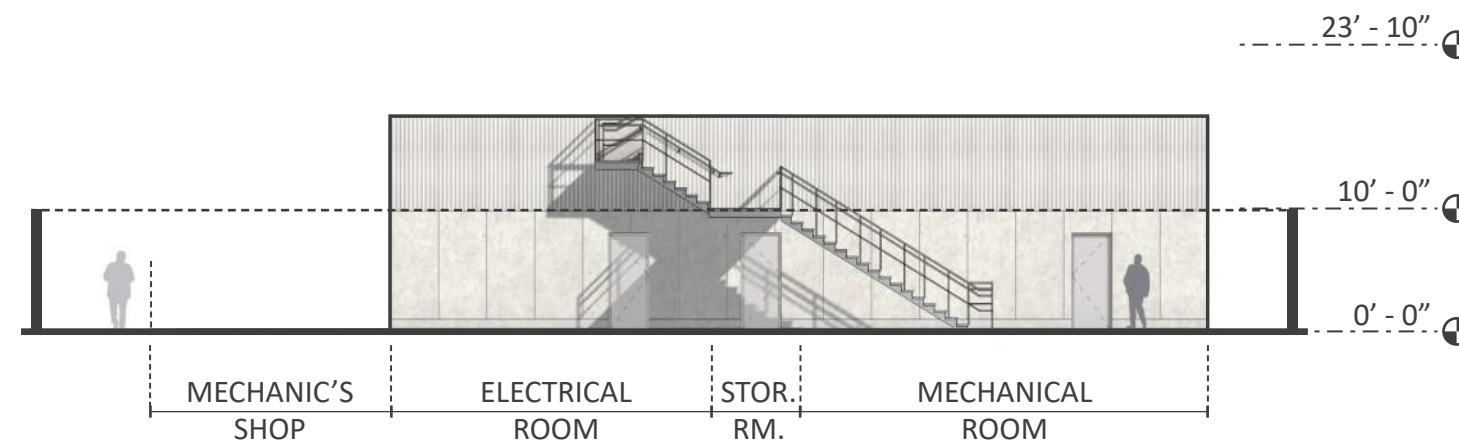
NORTH ELEVATION



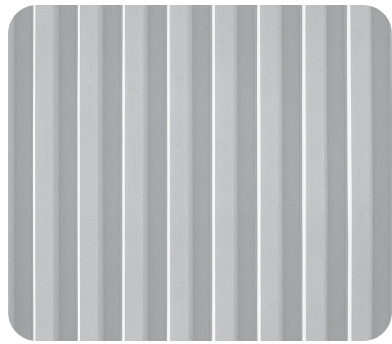
EAST ELEVATION



SOUTH ELEVATION



WEST ELEVATION



RIBBED CONCRETE TEXTURE



SMOOTH FORMED CONCRETE



FLUSH PANEL METAL DOORS
TO MATCH ANODIZED ALUM.

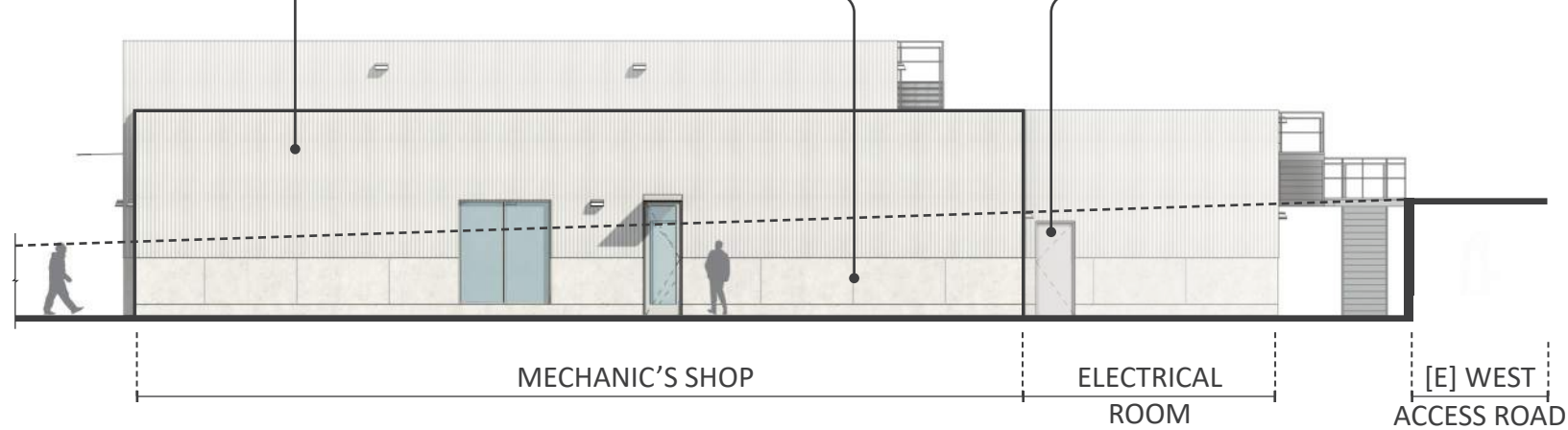


STOREFRONT GLAZING
W/ ANODIZED ALUM. FRAME

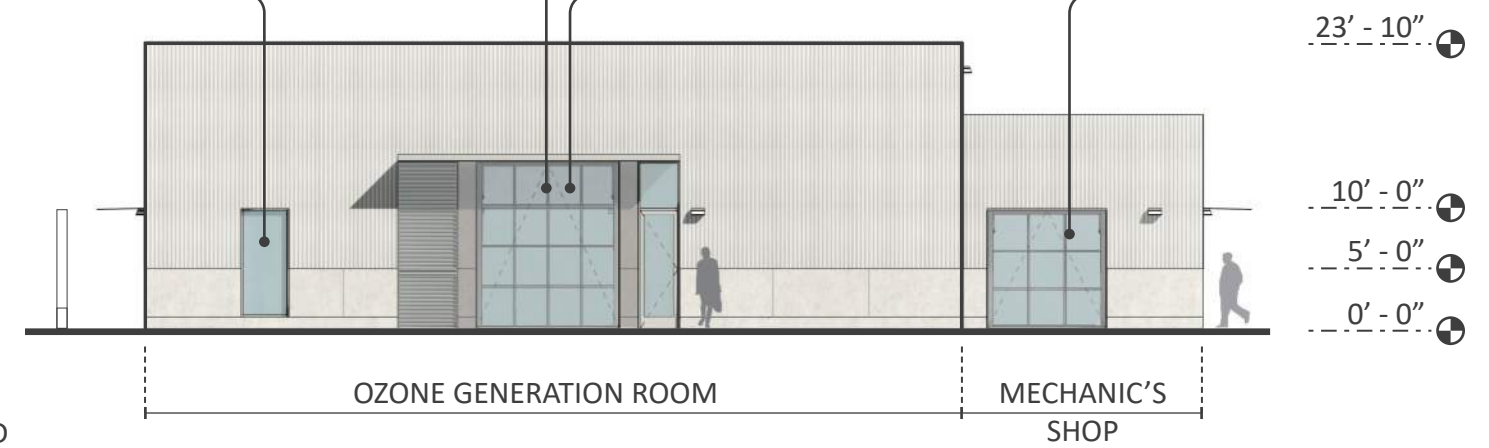


SINGLE-SWING DOORS
W/ ANODIZED ALUM FRAME

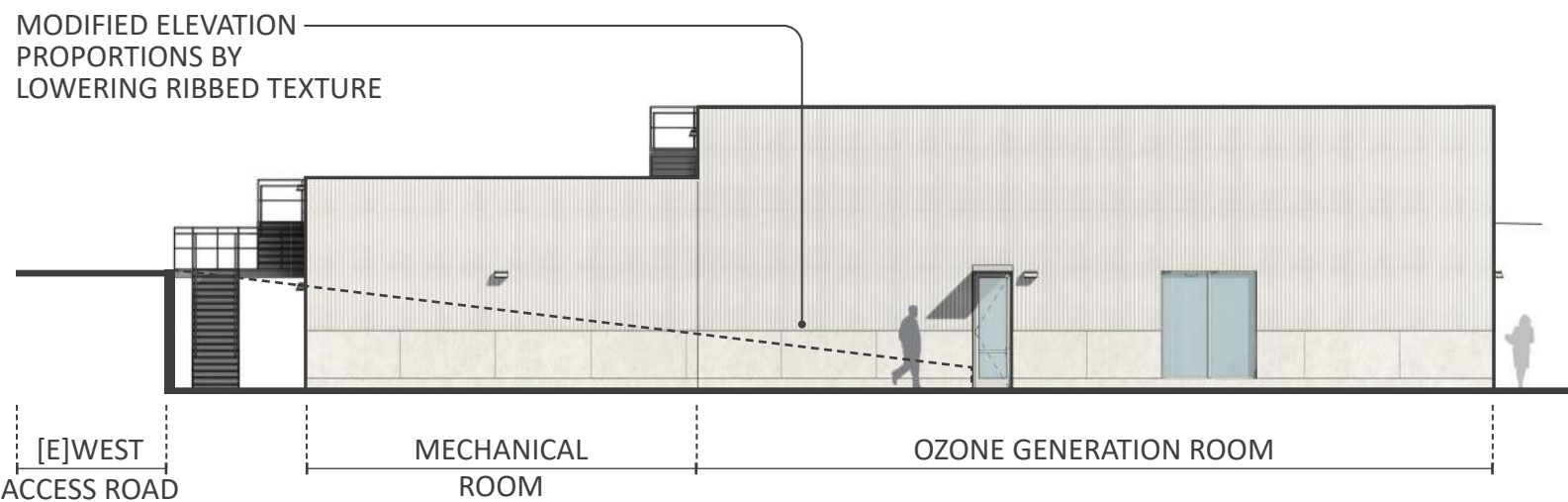
MODIFIED OPENING SIZE
FOR OPERATIONAL NEEDS



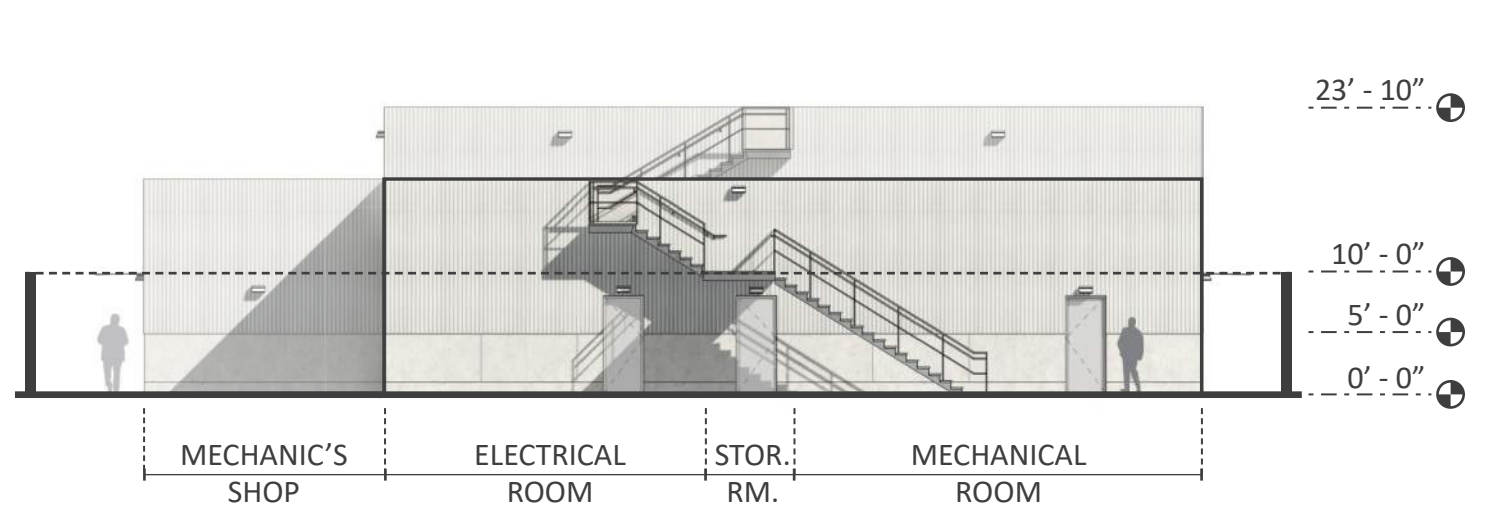
NORTH ELEVATION



EAST ELEVATION

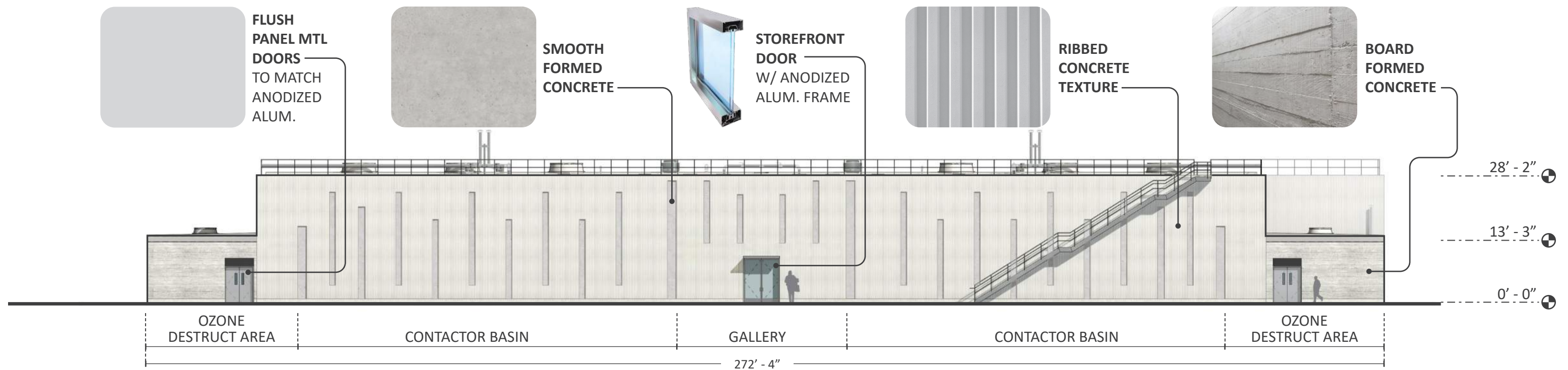


SOUTH ELEVATION

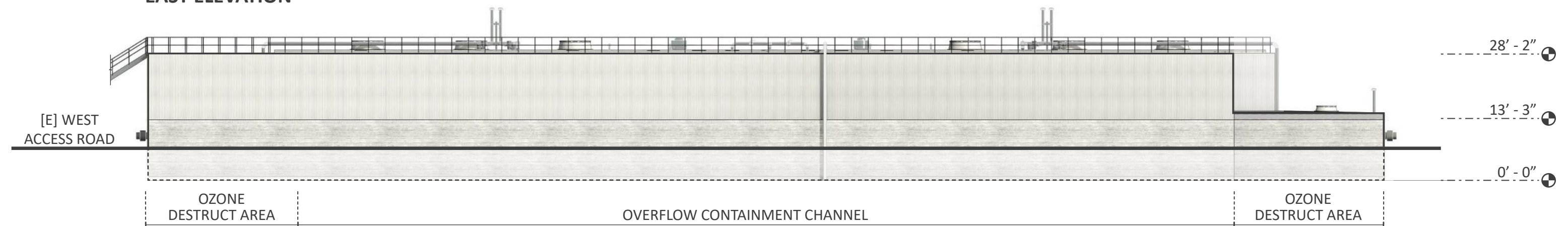


WEST ELEVATION

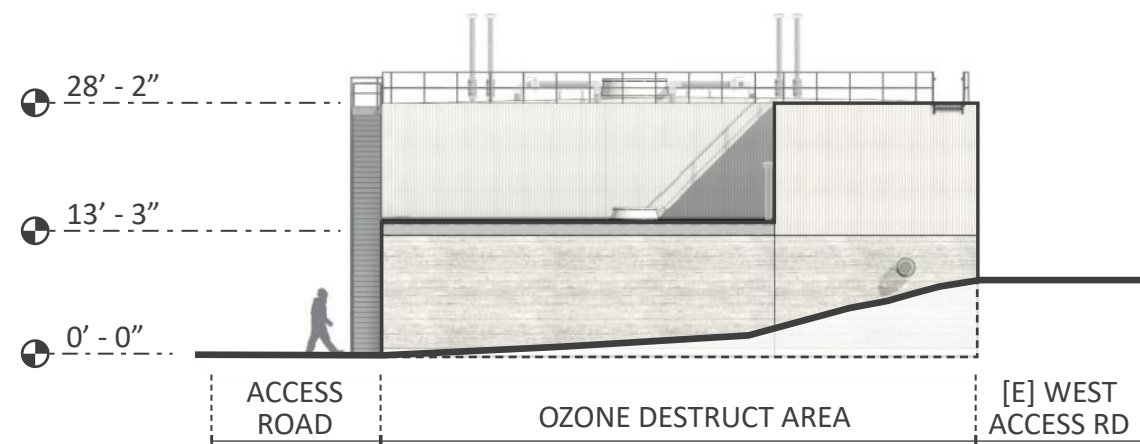




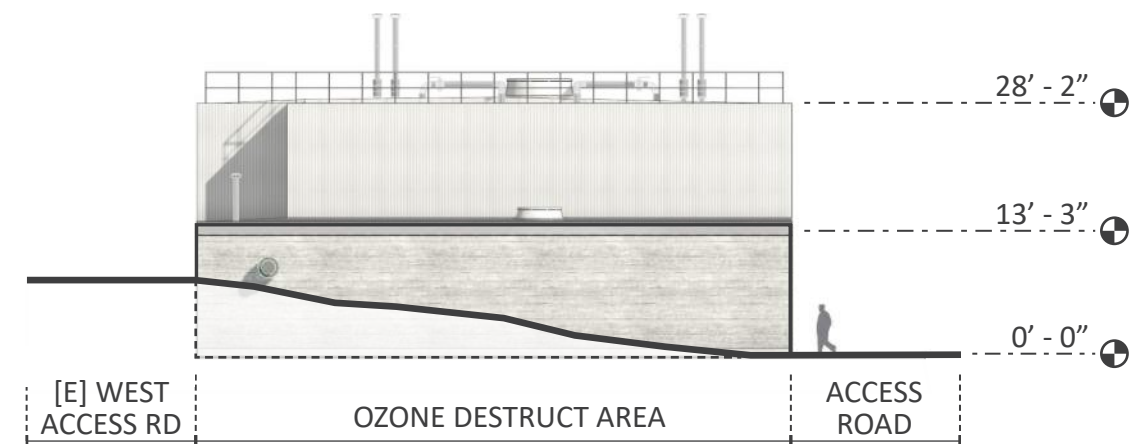
EAST ELEVATION



WEST ELEVATION (UNCHANGED FOR CDR PHASE 2)

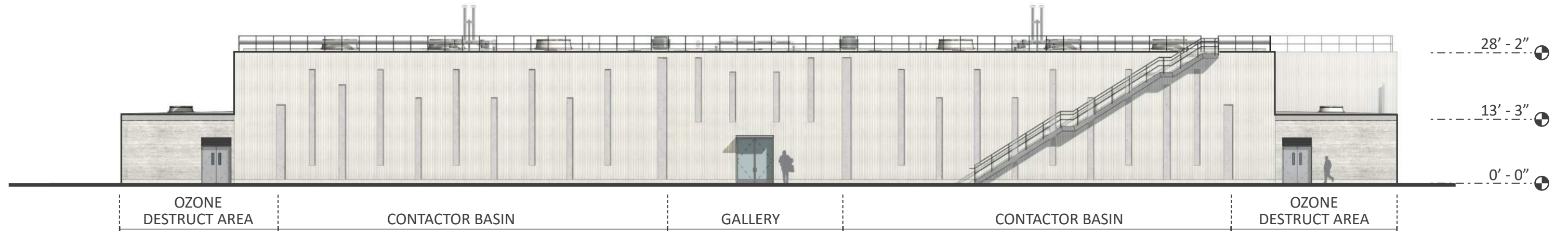


NORTH ELEVATION (UNCHANGED FOR CDR PHASE 2)

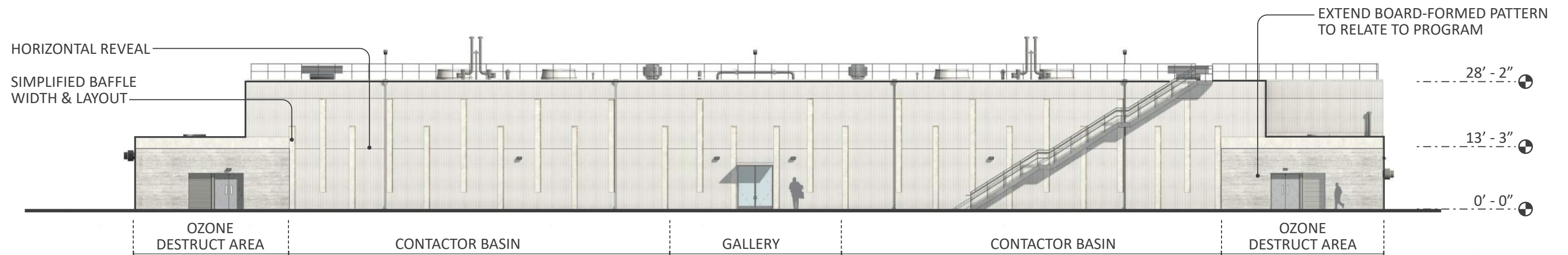


SOUTH ELEVATION (UNCHANGED FOR CDR PHASE 2)

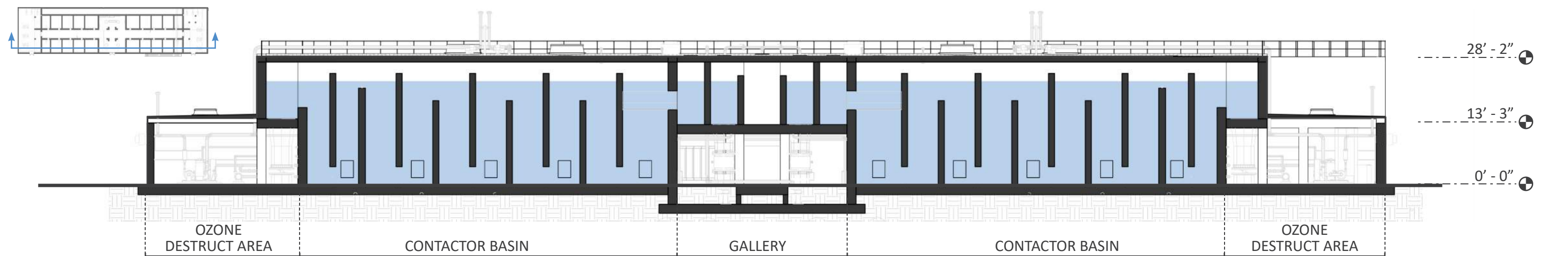




EAST ELEVATION - CDR PHASE I DESIGN



EAST ELEVATION - CURRENT DESIGN



LONGITUDINAL SECTION





[E] LIQUID OXYGEN FACILITY
HARRY TRACY WATER TREATMENT PLANT



[E] CHEMICAL STORAGE FACILITY
SUNOL VALLEY WATER TREATMENT PLANT

LANDSCAPE ARCHITECTURE COMMENTS FROM PHASE 1 & INFORMAL

1. Explore more bushes & ground-cover to relieve large area of hydroseeding

Response: Hydroseeding drastically reduced. Swathes of groundcover and shrubs added throughout.

2. Incorporate existing site tree species.

Response: Arbutus Menzeisi (Madrone) Trees incorporated into design.

3. Simplify plantings in Front Garden.

Response: Planting species list was thoroughly vetted by SFPUC Natural Resources Team.

4. Add shrubbery + ground-cover by vehicle parking.

Response: Steep Slope Planting provided.

5. Convey clear design intent for the garden “water wells.”

Response: Circular planting clusters will include accent planting of Ceanothus Blue Blossoms.

6. Address potential wildfire hazards with proximity of hydroseeding/plantings to buildings.

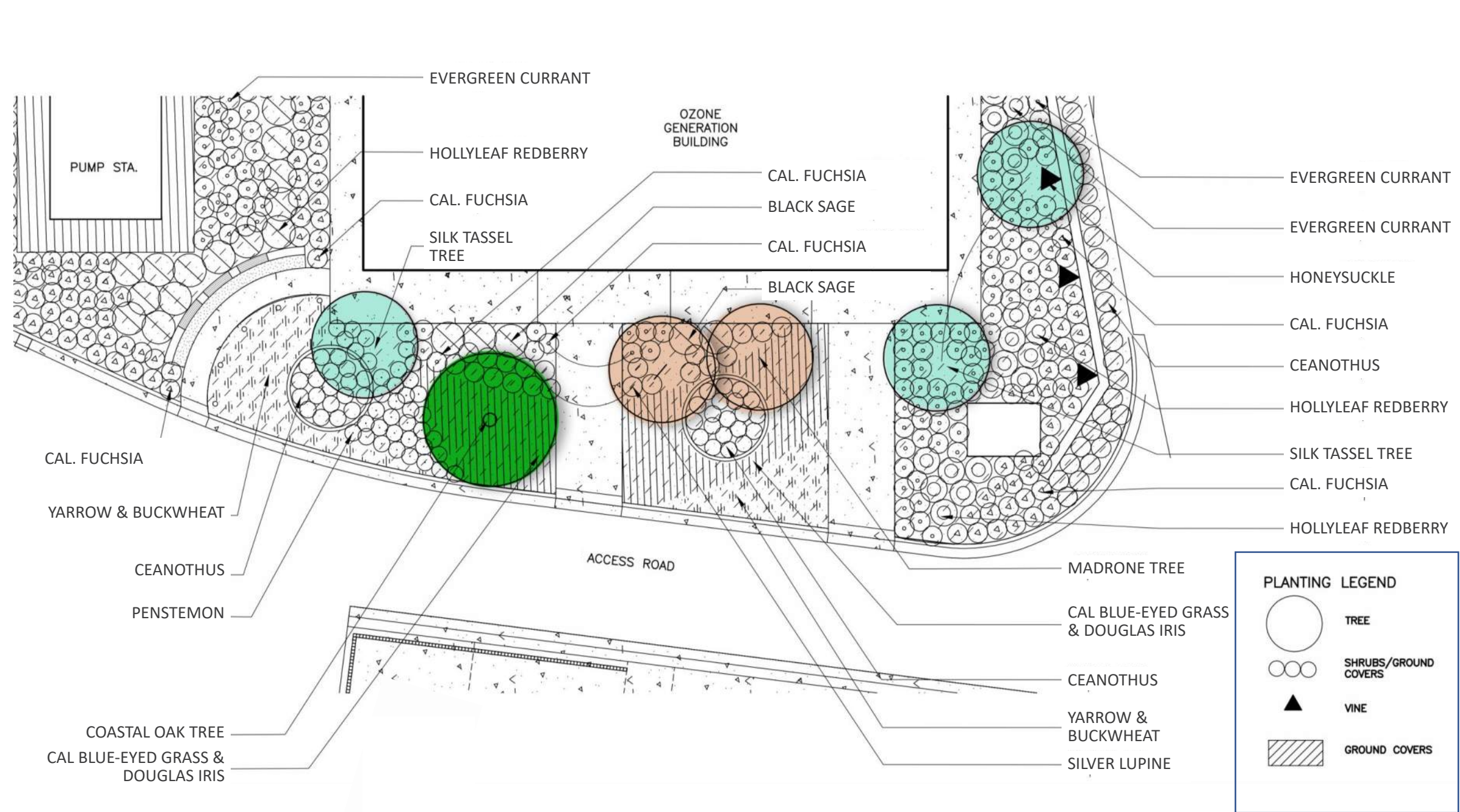
Response: Hydroseeding area was changed to irrigated planting areas.

7. Add native shrubbery closer to buildings/walkways to provide relief during hot weather months.

Response: Native trees, shrubs, and groundcover added in broad swathes of color and texture.

8. Incorporate site sections.

Response: Site sections incorporated to presentation.



YARROW

MADRONE TREE



CAL. FUCHSIA

CEANOTHUS



BUCKWHEAT

SILK TASSEL



DOUGLAS IRIS

SILVER LUPINE

HONEY SUCKLE



BENCH



LED BOLLARD



PENSTEMON



EVERGREEN CURRANT



COASTAL OAK TREE



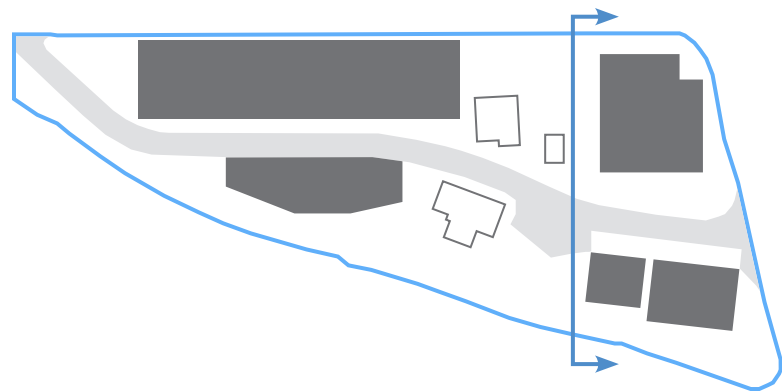
HOLLYLEAF REDBERRY

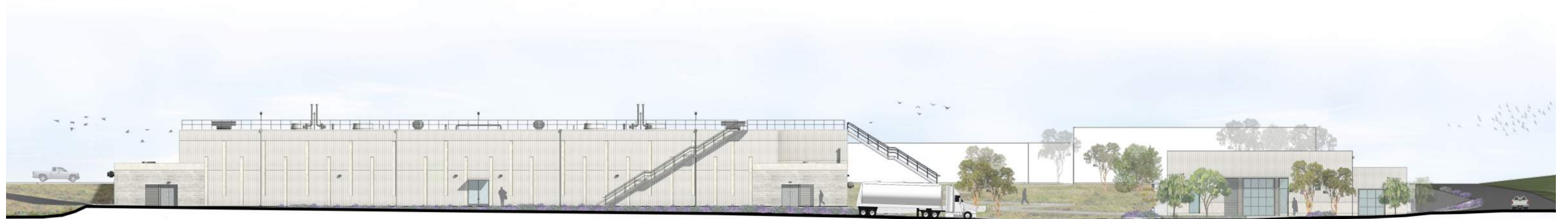
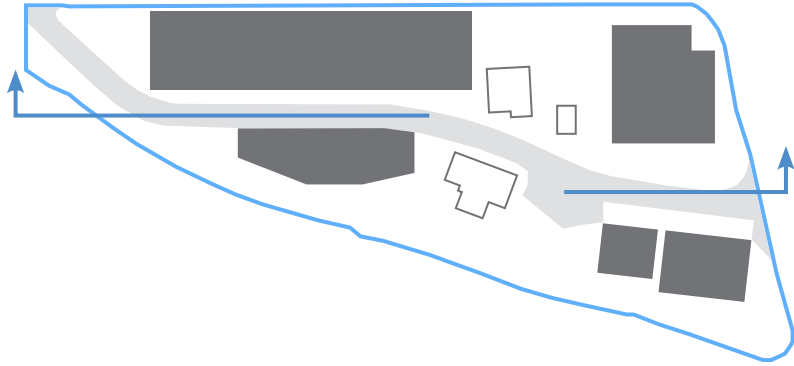


BLACK SAGE



CAL. BLUE EYED GRASS





STEEP SLOPE
PLANTING
AREA

OZONE CONTACTOR STRUCTURE

SITE ACCESSIBLE PATH
+ PASS-THROUGH PLANTING AREA

OZONE GENERATION BUILDING
+ FRONT GARDEN

[E] PLANT
ACCESS
ROAD



ACHILLEA MILLEFOLIUM
COMMON YARROW



ARBUTUS MENZEISII
MADRONE



CEANOTHUS T. 'REPENS'
CREEPING BLUE BLOSSOM



CHILOPSIS LINEARIS
DESERT WILLOW



EPILOBIUM CANUM
CALIFORNIA FUCHSIA



ERIOGONUM NUDUM
NUDE BUCKWEAT



FESTUCA CALIFORNICA
CALIFORNIA FESCUE



FRANGULA CALIFORNICA
COFFEEBERRY



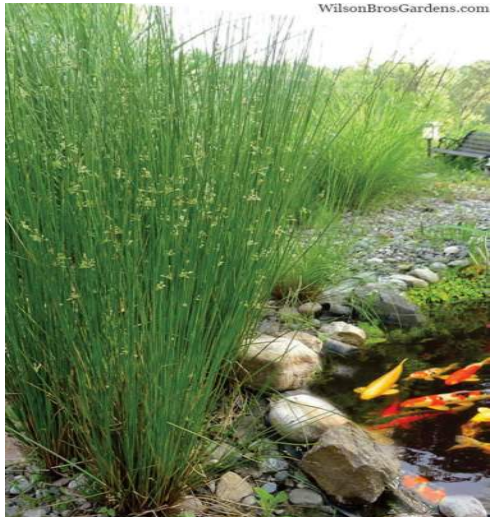
GARRYA ELLIPTICA
SILK TASSEL



HETEROMELES ARBUTIFOLIA
TOYON



IRIS DOUGLASIANA
DOUGLAS IRIS



JUNCUS EFFUSUS
SOFT RUSH



LONICERA HISPIDULA
CALIFORNIA HONEYSUCLE



LUPINUS ALBIFRONS
SILVER LUPINE



PENSTEMON HETEROPHYLLUS
S. FOOTHILL PENSTEMON



RIBES VIBURNIFOLIUM
EVERGREEN CURRANT



QUERCUS AGRIFOLIA
COASTAL LIVE OAK



RHAMNUS ILICIFOLIA
HOLLYLEAF REDBERRY



SALVIA MELLIFERA
BLACK SAGE



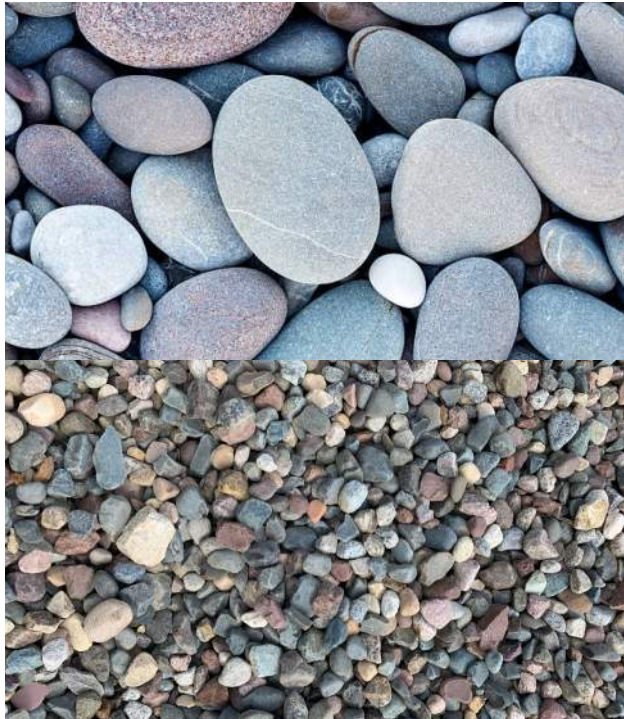
SISYRINCHIUM BELLUM
CALIFORNIA BLUE EYED GRASS



TRELLIS - GREEN SCREENS WITH VINES



BIOSWALE PLANTING



HARDSCAPE MATERIALS



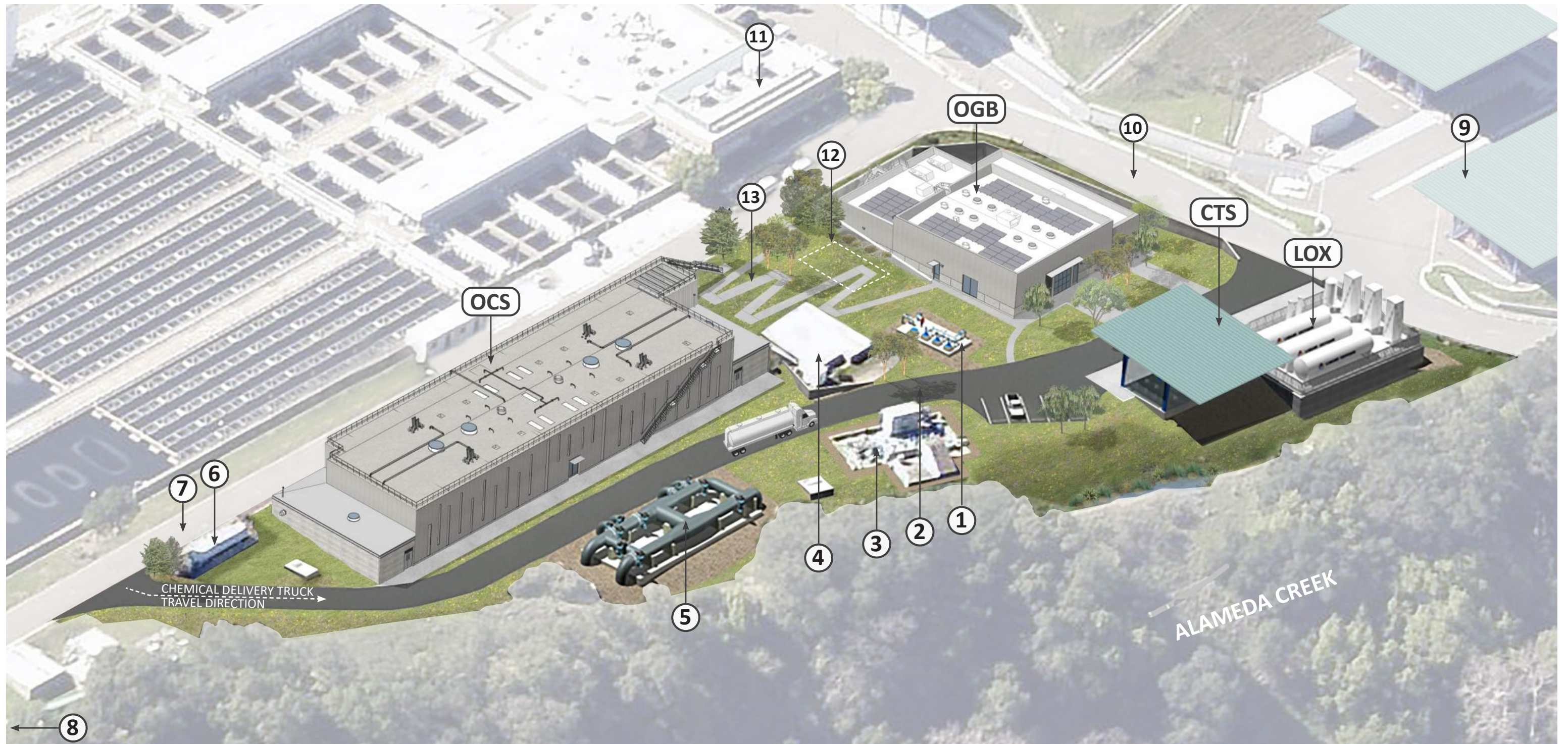
DECOMPOSED GRANITE



CONCRETE PATHWAY



PICNIC TABLE & BENCHES



- [OGB]** OZONE GENERATION BUILDING
- [OCS]** OZONE CONTACTOR STRUCTURE
- [CTS]** CALCIUM THIOSULFATE FACILITY
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THANK YOU

